

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-2915-1

Client Project/Site: Dimock/Carter Rd.

For:

Cabot Oil & Gas Five Penn Center West, Suite 401 Pittsburgh, Pennsylvania 15276

Attn: Phillip Levasseur

Authorized for release by: 09/13/2011 04:08:40 PM

Ryan Hall
Customer Service Manager
ryan.hall@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Page 1 of 16 09/13/2011

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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Client Sample Results	8
QC Sample Results	10
QC Association	11
Chain of Custody	12
Receipt Checklists	16

Case Narrative

Client: Cabot Oil & Gas

Project/Site: Dimock/Carter Rd.

TestAmerica Job ID: 180-2915-1

Job ID: 180-2915-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-2915-1

Comments

No additional comments.

Receipt

No analytical or quality issues were noted.

Subcontract Work

Method Dissolved Methane, Ethane and Propane - Nashville: This method was subcontracted to TestAmerica Nashville. The subcontract certification is different from those listed on the TestAmerica cover page of this final report.

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Definitions/Glossary

Client: Cabot Oil & Gas

TestAmerica Job ID: 180-2915-1

Project/Site: Dimock/Carter Rd.

Qualifiers

Pesticides

Qualifier	Qualifier Description
-,	

Concentration exceeds the calibration range and therefore result is semi-quantitative.

Glossary Abbroviation

Appleviation	these commonly used abbreviations may or may not be present in this report.
立	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin)

United States Environmental Protection Agency MDL Method Detection Limit Minimum Level (Dioxin) ML

ND Not detected at the reporting limit (or method detection limit if shown)

Practical Quantitation Limit POL

RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 180-2915-1

Client: Cabot Oil & Gas Project/Site: Dimock/Carter Rd.

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pittsburgh	ACLASS	DoD ELAP		ADE-1422
TestAmerica Pittsburgh	Arkansas	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina	North Carolina DENR	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	USDA		P-Soil-01
TestAmerica Pittsburgh	USDA	USDA		P330-10-00139
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	West Virginia	West Virginia DEP	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica Pittsburgh 09/13/2011

Sample Summary

Client: Cabot Oil & Gas Project/Site: Dimock/Carter Rd. TestAmerica Job ID: 180-2915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-2915-1	ELY, SC+MO WELL1	Water	08/11/11 11:33	08/12/11 10:00
180-2915-2	CARTER WELL 1	Water	08/11/11 12:15	08/12/11 10:00
180-2915-3	SYEMOUR WELL 1	Water	08/11/11 12:55	08/12/11 10:00
180-2915-4	ROOS WELL 1	Water	08/11/11 13:37	08/12/11 10:00

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Method Summary

Client: Cabot Oil & Gas

TestAmerica Job ID: 180-2915-1 Project/Site: Dimock/Carter Rd.

Method **Method Description** Protocol Laboratory **RSK 175** TAL NSH Methane, Ethane, and Ethene by GC

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

DIM0191045 DIM0191051

Page 7 of 16

Client: Cabot Oil & Gas Project/Site: Dimock/Carter Rd.

Client Sample ID: ELY, SC+MO WELL1

Date Collected: 08/11/11 11:33 Date Received: 08/12/11 10:00

Lab Sample ID: 180-2915-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.34		0.0260		mg/L		08/17/11 15:16	08/18/11 19:43	1.00
Propane	ND		0.0340		mg/L		08/17/11 15:16	08/18/11 19:43	1.00
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetylene	106	9	70 - 122				08/17/11 15:16	08/18/11 19:43	1.00
- Method: RSK 175 - Me	thane, Ethane, and Ether	e by GC - I	Dissolved - RE1						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	31.9	-	2.08		mg/L		08/17/11 15:16	08/18/11 19:46	80.0

Client Sample ID: CARTER WELL 1

Date Collected: 08/11/11 12:15 Date Received: 08/12/11 10:00

Lab Sample ID: 180-2915-2

Matrix: Water

						Prepared	Analyzed	Dil Fa
0.224		0.0260		mg/L		08/17/11 15:16	08/18/11 19:49	1.0
ND		0.0340		mg/L		08/17/11 15:16	08/18/11 19:49	1.0
% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
95		70 - 122				08/17/11 15:16	08/18/11 19:49	1.0
	ND % Recovery	ND **Recovery Qualifier**	ND 0.0340 % Recovery Qualifier Limits	ND 0.0340 % Recovery Qualifier Limits	ND 0.0340 mg/L % Recovery Qualifier Limits	ND 0.0340 mg/L % Recovery Qualifier Limits	ND 0.0340 mg/L 08/17/11 15:16 % Recovery Qualifier Limits Prepared	ND 0.0340 mg/L 08/17/11 15:16 08/18/11 19:49 % Recovery Qualifier Limits Prepared Analyzed

Client Sample ID: SYEMOUR WELL 1

Date Collected: 08/11/11 12:55 Date Received: 08/12/11 10:00

Lab Sample ID: 180-2915-3 Matrix: Water

Method: RSK 175 - Methane, Ethai	ne, and Ether	ne by GC -	Dissolved						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.0510	2	0.0260		mg/L		08/17/11 15:16	08/18/11 19:55	1.00
Propane	ND		0.0340		mg/L		08/17/11 15:16	08/18/11 19:55	1.00
Surrogate Acetylene	% Recovery 85	Qualifier	Limits 70 - 122				Prepared 08/17/11 15:16	Analyzed 08/18/11 19:55	Dil Fac 1.00

Method: RSK 175 - Methane, Ethane, and Ethene by GC - Dissolved - RE2										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Methane	2.63	1	0.260		mg/L	——n 1—8 1	08/17/11 15:16	08/18/11 20:00	10.0

Client Sample ID: ROOS WELL 1

Date Collected: 08/11/11 13:37

Lab Sample ID: 180-2915-4 Matrix: Water

Date Received: 08/12/11 10:00

1										
	Method: RSK 175 - Methane, Ethan	e, and Ether	ie by GC - I	Dissolved						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Methane	8.15	E	0.0260		mg/L		08/17/11 15:16	08/18/11 20:04	1.00

Client: Cabot Oil & Gas

Project/Site: Dimock/Carter Rd.

Lab Sample ID: 180-2915-4

Prepared

TestAmerica Job ID: 180-2915-1

Client Sample ID: ROOS WELL 1
Date Collected: 08/11/11 13:37

Date Received: 08/12/11 10:00

Analyte

Methane

Matrix: Water

Analyzed

08/17/11 15:16 08/18/11 20:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.19		0.0260		mg/L		08/17/11 15:16	08/18/11 20:04	1.00
Propane	ND		0.0340		mg/L		08/17/11 15:16	08/18/11 20:04	1.00
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetylene	107	N	70 - 122				08/17/11 15:16	08/18/11 20:04	1.00

RL

2.08

MDL Unit

mg/L

Result Qualifier

26.1

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Dil Fac

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a e

Client: Cabot Oil & Gas

Project/Site: Dimock/Carter Rd.

TestAmerica Job ID: 180-2915-1

Method: RSK 175 - Methane, Ethane, and Ethene by GC

Lab Sample ID: 11H4029-BLK1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Dissolved** Analysis Batch: U014593 Prep Batch: 11H4029_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND	E -	0.0260	23	mg/L		08/17/11 13:14	08/17/11 16:34	1.00
Ethane	ND		0.0260		mg/L		08/17/11 13:14	08/17/11 16:34	1.00
Propane	ND		0.0340		mg/L		08/17/11 13:14	08/17/11 16:34	1.00

Blank Blank

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene	71	-	70 - 122	08/17/11 13:14	08/17/11 16:34	1.00

Lab Sample ID: 11H4029-BS1 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Dissolved** Analysis Batch: U014593 Prep Batch: 11H4029_P

	Spike	LCS	LCS				% Rec.	
Analyte	Added	Result	Qualifier	Unit	D	% Rec	Limits	
Methane	0.273	0.238		mg/L	The 182 MA	87	80 _ 120	- 7
Ethane	0.512	0.469		mg/L		91	80 - 120	
Propane	0.754	0.708		mg/L		94	80 - 120	

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
Acetylene	102	-	70 - 122

Lab Sample ID: 11H4088-BLK1 Client Sample ID: Method Blank Matrix: Water **Prep Type: Dissolved** Analysis Batch: U014682 Prep Batch: 11H4088_P

Blank Blank MDL Unit Analyte RL Result Qualifier D Prepared Dil Fac Analyzed Methane ND 1.00 0.0260 08/17/11 15:16 mg/L 08/18/11 18:24 Ethane ND 0.0260 mg/L 08/17/11 15:16 08/18/11 18:24 1.00 Propane ND 0.0340 mg/L 08/17/11 15:16 08/18/11 18:24 1.00 Blank Blank

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene	113		70 - 122	08/17/11 15:16	08/18/11 18:24	1.00

Lab Sample ID: 11H4088-BS1 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Dissolved Analysis Batch: U014682 Prep Batch: 11H4088_P

							•	
	Spike	LCS	LCS				% Rec.	
Analyte	Added	Result	Qualifier	Unit	D	% Rec	Limits	
Methane	0.273	0.301	-	mg/L		110	80 - 120	
Ethane	0.512	0.565		mg/L		110	80 - 120	
Propane	0.754	0.833		mg/L		110	80 - 120	

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
Acetylene	114	-	70 - 122

TestAmerica Job ID: 180-2915-1

Client: Cabot Oil & Gas Project/Site: Dimock/Carter Rd.

Pesticides

Analysis Batch: U014593

١	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
١	11H4029-BLK1	Method Blank	Dissolved	Water	RSK 175	11H4029_P
	11H4029-BS1	Lab Control Sample	Dissolved	Water	RSK 175	11H4029_P

Analysis Batch: U014682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4088-BLK1	Method Blank	Dissolved	Water	RSK 175	11H4088_P
11H4088-BS1	Lab Control Sample	Dissolved	Water	RSK 175	11H4088_P
180-2915-1	ELY, SC+MO WELL1	Dissolved	Water	RSK 175	11H4088_P
180-2915-1 - RE1	ELY, SC+MO WELL1	Dissolved	Water	RSK 175	11H4088_P
180-2915-2	CARTER WELL 1	Dissolved	Water	RSK 175	11H4088_P
180-2915-2 - RE1	CARTER WELL 1	Dissolved	Water	RSK 175	11H4088_P
180-2915-3	SYEMOUR WELL 1	Dissolved	Water	RSK 175	11H4088_P
180-2915-3 - RE2	SYEMOUR WELL 1	Dissolved	Water	RSK 175	11H4088_P
180-2915-4	ROOS WELL 1	Dissolved	Water	RSK 175	11H4088_P
180-2915-4 - RE2	ROOS WELL 1	Dissolved	Water	RSK 175	11H4088_P

Prep Batch: 11H4029_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4029-BLK1	Method Blank	Dissolved	Water	RSK 175/3810	
11H4029-BS1	Lab Control Sample	Dissolved	Water	RSK 175/3810	

Prep Batch: 11H4088_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4088-BLK1	Method Blank	Dissolved	Water	RSK 175/3810	? -
11H4088-BS1	Lab Control Sample	Dissolved	Water	RSK 175/3810	
180-2915-1	ELY, SC+MO WELL1	Dissolved	Water	RSK 175/3810	
180-2915-1 - RE1	ELY, SC+MO WELL1	Dissolved	Water	RSK 175/3810	
180-2915-2	CARTER WELL 1	Dissolved	Water	RSK 175/3810	
180-2915-2 - RE1	CARTER WELL 1	Dissolved	Water	RSK 175/3810	
180-2915-3	SYEMOUR WELL 1	Dissolved	Water	RSK 175/3810	
180-2915-3 - RE2	SYEMOUR WELL 1	Dissolved	Water	RSK 175/3810	
180-2915-4	ROOS WELL 1	Dissolved	Water	RSK 175/3810	
180-2915-4 - RE2	ROOS WELL 1	Dissolved	Water	RSK 175/3810	

TestAmerica Pittsburgh 09/13/2011

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Address:	Doug Newton	ramager r					Chris	Huste	ed							Ryan	Hall								
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Login Sample Receipt Checklist

Client: Cabot Oil & Gas Job Number: 180-2915-1

Login Number: 2915 List Source: TestAmerica Pittsburgh

List Number: 1 Creator: Gamber, Tom

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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